

IN THE CLAIMS:

None of the claims are amended herein. However, the claims are reproduced below for the convenience of the Examiner.

1. (Previously Presented) A method, comprising:

determining if a memory section is functional based on memory BIST data;

selecting a redundant memory section if the memory section is determined to be nonfunctional;

determining if at least the selected redundant memory is functional according to a BIST;

selecting a further redundant memory section if the selected redundant memory section is determined to be non-functional;

repeating selection of the further redundant memory section if the selected further redundant memory section is non-functional, until the selected further redundant memory section is determined to be functional or all redundant memory sections have been selected; and

updating a redundant memory data structure to indicate that the selected redundant memory section is no longer redundant.

2. (Original) The method of claim 1, further comprising storing data indicating the selected redundant memory section.

3. (Original) The method of claim 1, further comprising outputting a pass or fail signal based on the determining if at least the selected redundant memory is functional according to a BIST.

4. (Original) The method of claim 1, wherein the redundant memory section includes a column or row.

5. (Original) The method of claim 1, wherein the redundant memory section includes a bit.

6. (Original) The method of claim 1, wherein the selecting selects a redundant memory section from a redundant memory data structure.

7. (Cancelled)

8. (Original) The method of claim 1, wherein the method is performed during a manufacturing process.

9. (Original) The method of claim 1, wherein the method is performed during power up of an integrated circuit.

10. (Previously Presented) A system, comprising:

means for determining if a memory section is functional based on memory BIST

data;

means for selecting a redundant memory section if the memory section is

determined to be nonfunctional;

means for determining if at least the selected redundant memory is functional according to a BIST;

means for selecting a further redundant memory section if the selected redundant memory section is determined to be non-functional;

means for repeating selection of the further redundant memory section if the selected further redundant memory section is non-functional, until the selected further redundant memory section is determined to be functional or all redundant memory sections have been selected; and

means for updating a redundant memory data structure to indicate that the selected redundant memory section is no longer redundant.

11. (Previously Presented) A system, comprising:

a BIST capable of determining if a memory section is functional; and

self-adaptive logic, communicatively coupled to the BIST, capable of selecting a redundant memory section if the memory section is determined to be nonfunctional;

wherein the BIST is further capable of determining if at least the selected redundant memory is functional, selecting a further redundant memory section if the selected redundant memory section is determined to be non-functional, repeating selection of the further redundant memory section, if the selected further redundant memory section is non-functional, until the selected further redundant memory section is determined to be functional or all redundant memory sections have been selected, and updating a redundant memory data structure to indicate that the selected redundant memory section is no longer redundant.

12. (Original) The system of claim 11, further comprising a register communicatively coupled to the self-adaptive logic and wherein the self-adaptive logic is further capable of storing data indicating the selected redundant memory section in the register.

13. (Original) The system of claim 11, further comprising a pin and wherein the self-adaptive logic is further capable of outputting a pass or fail signal based on the BIST determination of the functionality of the selected redundant memory.

14. (Original) The system of claim 11, wherein the redundant memory section includes a column or row.

15. (Original) The system of claim 11, wherein the redundant memory section includes a bit.

16. (Original) The system of claim 11, further comprising a redundant memory data structure listing redundant memory sections and wherein the self-adaptive logic selects a redundant memory section from the redundant memory data structure.

17. (Cancelled)

18. (Original) The system of claim 11, wherein the BIST and the self-adaptive logic function during a manufacturing process.

19. (Original) The system of claim 11, wherein the BIST and the self-adaptive logic function during power up of the system.